

Bland Outbreak Area and Trangie

Eighth Trip. (27/6/41 - 4/7/41) [C.1705].

Murrumbidgee - Cotnamundra - Pale-med. ^{+ some pale brown} iron on undulating country w. white box, red box + a little stringybark.

~~Cotnamundra~~ - Temora. 1689 - 915 undulating or pale-med. brown red, white box, red box, little stringybark. 915 - 19 same, sh. somewhat gravelly ridges w. red ironbark. Occ. pine.

19 - 23 gravelly + shaly brown soil w. orig. dense stand of red ironbark, red box, occ. pine. Poor *Danthonia* pasture where cleared. Quarky chips. Small acrophyllous shrubs (sample). 23 - 33 (Temora) nearly flat pine red box on med.

brown red. mainly scrub.

Temora - W. Murrumbidgee, 33 - 47 ditto. *Chloris* dominant from ca. 39. 47 - ^{56 (Praximedman)} ditto plus frequent bull-oak. 56 - 60 ditto plus frequent belah, occ. rosewood, v. occ. milga. 60 ⁶⁴ brown slightly on soil patches w. box, rosewood, belah, yarran.

Pine. 64 - 67 return. 67 patch melon - holey firm brown w.

belah, yarran, milga. 67 - 71 return. 71 - ca. (Murrumbidgee) acts + intersp. of pine - box + mallee on sh.

Wyalong (81) - ^{81 - 96} Marsden (with N. road). ^{81 - 96} Altho one strip of pine box, occ. bull-oak, belah, ironbark, + mallee on

med. sh. some brown. 96 - 99 pine - red box, occ. bull-oak on

sh. 99 - ^{1700 ft} pine, red box, *Kerrija*, etc. bull-oak

v. occ. pop. bon
v. occ. milga

occ. rosewood, v. occ. kaka on med. sh. brown.

17004 Lake Cowal Siding. 17004 - spine, nl. bon.

bull-oak, rosewood, milga, occ. Karrajong, occ. kaka,
occ. pop. bon
occ. lalah on med. sh. brown, some gravelly. 8-10

lalah, rosewood, myall, milga on brown somewhat
greasy. to. Creek, 11-13 lalah, milga, rosewood on pale-

med. sh. slightly on & greasy, with alts. & intergs. with
pale brown hard greasy w. pop. red bon. gums in

water courses. 13-20 alts. & intergs. of mod. on pale - med.
at little brown mainly slightly on. ^{occ. myall}

sh. & pal. sh. greasy. lalah, rosewood, milga, gums
- med.
along creek, 20-26 short form alts. & intergs. of heavy sh.

med. sh., sh. brown greasy, with sh. hard. lalah, myall,
rosewood, milga, nl. bon, pop. bon. 26-32 alts. & intergs. of
brown greasy sh. hard w. lalah, milga, myall, nl. bon. ^{occ. rosewood.}

32-60 ^{occ. white bon} nl. bon, pine, bull-oak on med. sh. hard. 34.

Caragabal. 39 return to undulating country w. scattered
hills. white bon down from ca. 55. 60-61 white bon

+ nl. ironbark on pale brown hard, mod. hilly.
62 gumfall.

(17062) Greenfell to Wyalong via Quandialla.

17062-7069.

about 7 miles of favorable habitats on
paddocks on R.H.S. of road, containing
adult conc. zones & some preferred ovip. sites. (Howling
area
in main
grove)

17062-74 White box, N.L. Box, ^{E. millidora} shag bark on pale

medium brown, hard wood, sandy
& pine from 70.

17062-74. Numerous apparently favorable.

C. tenuipora habitats, in a few cases
containing potential outbreak centers.

17074-80

pale & medium brown and red brown (hard)

N.L. Box, kind occ. White box parts,

undeciduous from 77, ⁸⁰ sandy in places.

17080-84 (Banksia) pale grey brown silt, c shag bark
flat.

17084-92 (Quercus) White & N.L. Box, pine on pale -

medium brown & red brown, ^(hard-wood) occ. locowood

^{bullock} & belah from 91-95.

17096-99

shag bark, brown, white box, N.L. Box, locowood, Myall

17097 - 17099 return to previous state of affairs

17099 - 113 ^{short to medium term alternations}
medium grey brown, greasy & fluffy, Yanganbill

on fluffy, apperaceous plant in depressions, shelves almost
bare (Photographs one and 2). Box, belah, rosewood,
and probably naturally treeless with greasy pale grey brown.

(17102 snails) favorable Ct. habitat in conc. zone, preferred
out site on T.S.K.)

- red brown and moderately ^{heavy} self mulching, grey brown to
moderately dense Yanganbill, many treeless. Low 102.

(17101-106. - favorable alternations) soil type

producing on T.S.K. - favorable habitats with
adverse consequences (favorable out sites)

(17108-110 also 17101-106.)

17110 - 115 Box. Rosewood. Wilga. belah on
^{red brown}

brown, heavy, fluffy in places, alkali, with
moderately strong self mulching, red brown
with occ. small

(17113 favorable Ct. habitat in conc. zone (out sites).)

17115 - 119 belah (out dense) on brown -

grey brown greasy to slightly self mulching,
melon like. Strongly developed in places

28
+ box ^{in patches} ~~Myrtle~~ Pine on higher country, to
the road. Myrtle in patches

1719-23 N.L. Box, Pine, Bull oak on red brown,
Brown, hard

1723 ~~Embarked~~ ~~area~~ at 22. (Book exposed to the sun)

1723-25 ~~Wattle~~ on brown + red-brown

1725- Wyalong 127

Poplar box, N.L. Box, Pine, on rich red brown hard

Wyalong. Forbes. 1731-

31-33. Poplar box, N.L. Box, Pine on red brown hard.

33-34 ~~Wattle~~ on red brown

34-39 ~~Wattle~~ ~~Myrtle~~ N.L. box 516 box
Pine, oak bull oak

39-40 ~~Wattle~~, N.L. Box on brown, pine, \bar{o}
wattle holes

40-41 N.L. Box, pine, bull oak on red brown
hard

41-42 N.L. Box N.L. ~~Wattle~~, bull oak, pine
on red brown + brown hard

42-43 N.L. Box, pine, bull oak on hills, oak
Curragh on red brown hard & heavy

64-71 Brown, red brown, a little grey, brown
flange hard \bar{c} NLRox, ~~Populus~~ ~~tr~~ pin or belah
bullock, rosewood current bush.

72-73 ~~occ~~ buddah occ yamun rosewood, current
bush on red brown grass, \bar{c} puff.

74-77 med red brown hard \bar{c} NLRox, pine, willow
buddah, occ rosewood, occ-bullock, half (shell)

(77-79 habitat of habitat contain possible outbreak)

77-80 long med-long term also into go. of rb. green,
w. puff & gb. mod sm. Bon, rosewood.

81⁸² low-lying country with a small gum on mod.
sm. mod. gb. A *Bassia* very numerous.

81-82-83 for habitat & prot. outbreak center)

82-86 med to long term all & unless / grey brown
- red brown heavy & grey brown slightly to
moderately all muddy \bar{c} puff. many trees
occ eucalypt rosewood.

87-90. NLRox, pine on med red bud, hard,

91-90 (95) pale grey, brown & brown foliage
 \bar{c} NLRox & strong bark.

oc. R. antove

grey brown greasy areas with NL box, string bark &
sum. accompanied close to river (from 230)

(240 fav. habitat outbreak centre possible)

245 " " " " probable outbreak centre

242-46 medium term alterations of medium to
heavy self-mulching med-grey brown, & brown to red-brown
grey to hands NL box, string bark, Bassia

dense on heavy country (oc. weeping tree, ^{acacia med height} possibly)

(244-52 numerous possible outbreak centres) ^{Coolbach}

46-50 short term alts of med. heavy ^{med} sm. gb. &

gb. to 76. grass w. nl box, string, occ. myall, consid
natural plain, gently undulating.

250-59 (Coedokolin) med term alteration
& interphase

1) brown-red brown heavy & brown grey
brown (shel to moderate) self ^{mulching} ~~antove~~

2) myall fuel dense, poplar box NL
both occ. rosewood.

Coedokolin - Trundle 60-65 (Trundle turn-off) rich 76.

glam hard w. pop. lion, nl lion & myall. 65-77 rich

red brown (o), slightly sandy, w. pop. lion, pine, ^{occ. myga} occ.

Kurrajong. (65-66 fav. habitats, w. possible outbreak
undulating. centres)

77-80 alts + mbergs of red box-pine & al iron bark -
 mallee-wattle on undulating quartz gravel
 country. 80-89 pop. box, pine, occ. Kurrajong, occ.
^{occ. nl box} mulga, occ. buddah on rich th. - red. 89-99 (Trundle)
 nl box, pop. box, pine, v. occ. Kurrajong on red hard.
Trundle (300) to Peak Hill 300-307 ~~to box, plus occ.~~
 nl box, pop box, pine, occ. Kurrajong (frequent in
 places), occ. hulloak, occ. buddah, v. occ. ^{(wattle} rosewood.
 307-19 nl box, pine, hulloak, occ. mulga, buddah,
 wattle, Kurrajong on ^{rich th -} dark rb, fine gravel. Occ patches
 al iron bark 19-32 ditto on brown, ^{dark brown} th hard. Slight
 tendency to puffs on brown hard w. occ. myall ²⁹, 31 on
 slight tendency to puffs on brown, w. occ. myall,
^{mulga.} rosewood, fav. habitats between 29 & 32. 32-34 rich red +
 th w. nl box, pine, rosewood, mulga. 34-43 ^(Peak Hill) rich brown to
 the red hard w. nl box, pop. box, pine, mulga, rosewood
Peak Hill - Narrogin via Wangarilly ⁽⁴³⁾ 43-46 med. th. ^{fairly} greasy
 w. nl box myall. 46-~~50~~ ^{alts of} nl box, occ. pine, pop box,
 rosewood, hulloak, myall on ^{of} hard th. ^{of} ditto on
 med. th. greasy. (fav habitats, 50-52 ²⁷, prob. outbreak
 centre at 52.) 54-56 nl box, pop. box, pine, hulloak on
 brown-th hard. 56-⁶² ~~55~~ ^(fairly) nl box, hulloak on brown-

69 - ⁶⁹ pine - ^{hard & slightly sandy (2)} ...
 70 - ⁶⁹ - ^{hard} ...
 71 - ⁶⁹ - ^{hard} ...
 72 - ⁶⁹ - ^{hard} ...
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 89 - ⁶⁹ - ^{hard} ...
 90 - ⁶⁹ - ^{hard} ...

Narromine - Peak Hill. Country very similar to that
 from Trundle to P.H., viz. ul. box, occ. to freq. pop. oak, freq.
 hull-oak & pine. Pop. oak dom. in places. white box
 occ. ul. ironbark on a few gravelly ridges. The Casuarina
 reported on my first trip is thus hull-oak, not ul. oak.
 Soil sb. to red, purple gravel in places. Occ. hummocking.
 Pop. box apparently disappears S of P.H.
 67:
 67 - ⁶⁷ Turn-off from Candaholm road. 67-68
 Pale brown greasy w. ul. box, stringy & gum. 69-73 med.
 sb. brown hard w. ul. box, pine, occ. white box. 73-74
 alts. of pale-^{med.} med. gr. & brown greasy, sometimes w. puffs, &
 slightly-med. sun. med. gr. ul. box, stringy, occ. small
 75-77 Pale med. brown to dark, greasy & sandy w. ul.
 box, occ. pine, v. occ. hull-oak. 77-79 (Saroma) Pale gr. to pale
 med. brown greasy w. hummocking & slightly sun. ul. box,
 occ. ironwood, ne. myll.

Garuda - Greenfell via The Mungle bridge : - 79-84 : as before.

⁵~~84~~-86 (main Forbes - Greenfell Rd.) greasy to heavy sun, pale-med. gb. w. gilgais, puffs. At first nl. box, rosewood, then treeless, occ. myall. fairly dense yungahill. 86-88

mod. - heavy sun, pale-med. gb. w. yungahill. Treeless.

88-92¹ greasy - mod. sun med. gb. w. puffs + occ. gilgais.

nl. box, rosewood, occ. myall. Patches of yungahill.

(Greenfell)
592-612¹ slight rise to pale to med. brown to r. hard w.

nl. box, strugly, tableland gum, occ. pine, occ. (Marsdenburra-?)

bull-oak (to ca. 96). white box frequent after 606, 1

v. occ. before. nl. iron bark frequent from 609.

(612)
Greenfell - Young : 12-32 : white box, nl. box, strugly, occ.

gum, very occ. pine (to ^{ca.} 25) on pale-med brown and

med-rich r., occ. red, hard. white box on rises, nl. box

+ strugly on flats + hollows. 32-44 (Young). Strugly,

gums, v. occ. nl. box, white box on some rises. ^{occ.} sp.

near Young. Pale brown + r. to med. brown + med to rich

r.

Young - Grass . 44-54. Gum, white box, strugly on

pale ^{pale} gb. + brown to (occ.) rich r. 54-⁷⁶~~83~~ Gum, "tableland

box", v. occ. white box, on same soils, but paler types

strongly dominant. Murrumburrah at 64. ~~83~~ 76-83 med brown to

med. rich 76 w. white box strongly dominant, other bees
(span)
v. occ. 683-707 / return. Bina long at 85. no white box after
695.



37ms. W of Grenfell on G-Loyalong
road (7ms. W of Quandialla). June
1941. Medium grey-brown greasy
soil with puffs. Bon, belah,
rosewood + prob. naturally treeless
areas. Yanganbill on puffs,
Cyperaceous plant in depression,
shelves almost bare. Photo
showing tendency of puffs to
arrange themselves in lines.

37 ms. W of Grenfell on G-
Loyalong road (7ms. W of
Quandialla) June 1941. Medium
grey-brown greasy soil with
puffs. Bon, belah, rosewood +
prob. naturally treeless areas.
Yanganbill on puffs, Cyperaceous
plant in depressions, shelves
almost bare.

~~2(a)~~

~~4(b)~~

[Pl. 2(a) of Bull. 186, 1945]

South of Narronine, near Cairns
June 1941. Nl. lion + belah on
"2" with slightly to mod.
self-mulching gilgais. Photo
shows rather gravelly bare space
on top of "mound" in foreground,
with heavily vegetated gilgai
beyond.

VELOX

VELOX